Call us for more information or a demonstration.

U.S.	1-800-791-3357
U.S. Federal	1-800-565-9940
Canada	1-800-461-5297
Asia-Pacific	61-2-9929-2888
Europe	31-23-5666333
Middle East	971-4-367555
Other areas	1-256-730-5499

Or contact an Intergraph representative.

www.intergraph.com/gis

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INTERGRAPH

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PRODUCT OVERVIEW

INTERGRAPH GeoMedia™ Professional

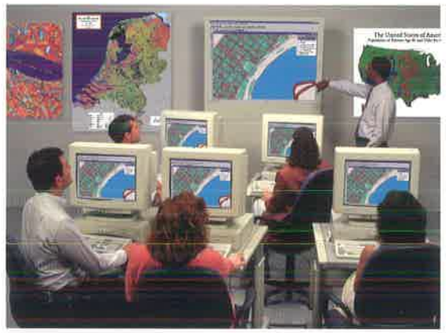
The Open Standard for the GIS Professional

INTERGRAPH

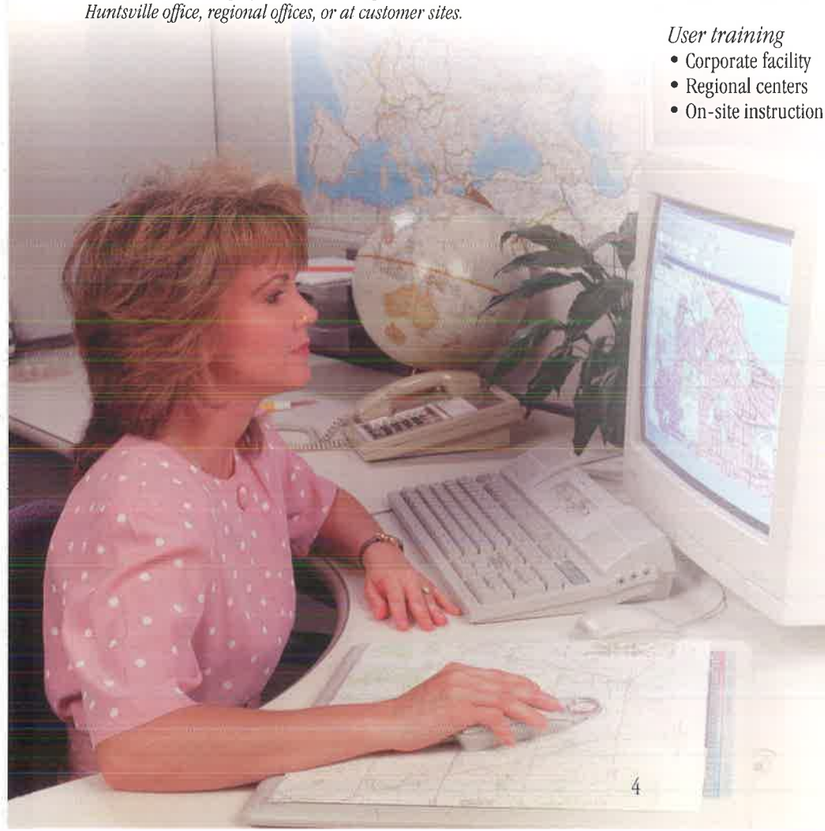
Industry-standard development environment for nonproprietary customization

GeoMedia Pro enables individual customization while maintaining organizational consistency by storing scripts, styles, projections, and other information. GeoMedia Pro is compatible with standard Windows development tools, including Powersoft's Powerbuilder, Microsoft's Excel (with VBA), Visual Basic,® and Visual C++.® These tools let you drive GIS applications directly through OLE automation for faster application prototyping. No longer is a proprietary development language necessary to change the user interface or develop customized functionality.

The toolbar, menus, and shortcuts can be customized using a simple drag-and-drop action – the same way you tailor your Windows applications. Even nontechnical users can customize the user interface. You can quickly tailor GeoMedia Pro to your specifications.



Intergraph provides professional training services at our Huntsville office, regional offices, or at customer sites.



User support

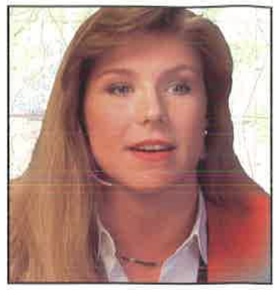
To help you become productive in the shortest time possible, Intergraph offers a wide range of services to support you at the level you need. Our experts will meet with you to develop a team plan based on your requirements. Among the services we provide are:

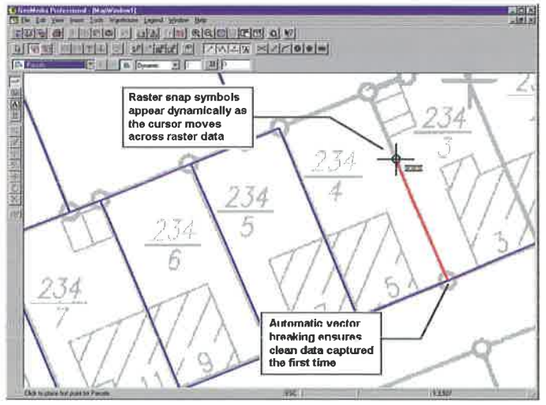
Project and consulting services
- Needs assessment
- Project planning and management
- Requirements specifications
- Detailed design
- Pilot project
- Consulting
- System implementation
- Workflow design and development

Database services
- Database design
- Data conversion specifications
- Data conversion quality assurance
- Data migration

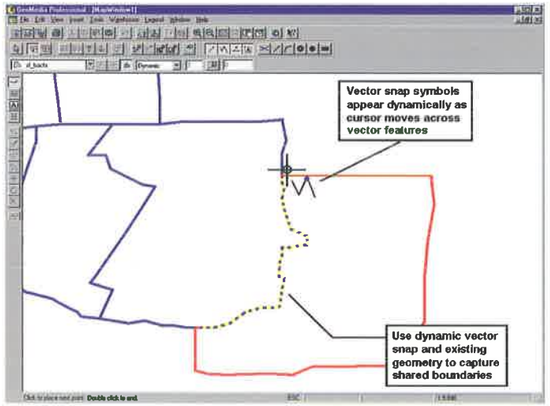
Customization services
- Prototype development
- System design
- Custom application development
- System integration
- Code conversions

User training
- Corporate facility
- Regional centers
- On-site instruction

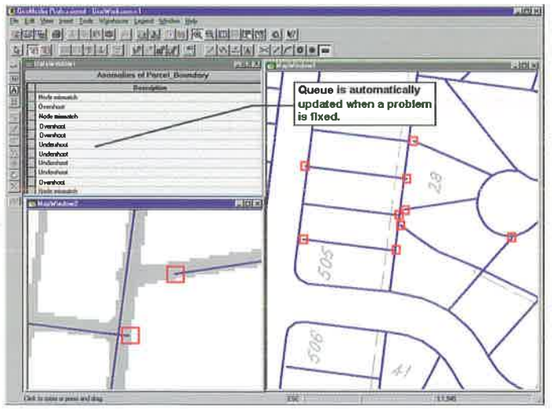



Raster snap symbols appear dynamically as the cursor moves across raster data
Automatic vector breaking ensures clean data captured the first time

The raster snap and automatic vector break tools increase accuracy and productivity.


Vector snap symbols appear dynamically as cursor moves across vector features
Use dynamic vector snap and existing geometry to capture shared boundaries

Coincident digitizing and editing prevent slivers and gaps between features.



Dynamic queued edit provides for rapid problem correction.

Intelligent tools for data capture, automation, and maintenance

GeoMedia Pro extends GeoMedia's efficiency and speed to data collection and maintenance by providing capture and editing tools that are easier, faster, and more intelligent than traditional GIS applications. Built directly on Windows with the GIS user in mind, GeoMedia Pro focuses on GIS workflows instead of CAD. More than a drawing tool, GeoMedia Pro actually adds intelligence to the features by integrating graphics with attribute data.

Capturing and maintaining data has never been easier than with GeoMedia Pro. The familiar Windows interface and new, powerful Windows-based capabilities reduce the number of steps to accomplish every task, saving you time and effort. With integrated vector and raster SmartSnaps, you can capture vector data from raster images. As you move the cursor, snap points are identified automatically, ensuring accurate heads-up digitizing without constantly zooming around the data. Table digitizing and vector transformation are also provided for data that requires geometry transformation to match your GIS.

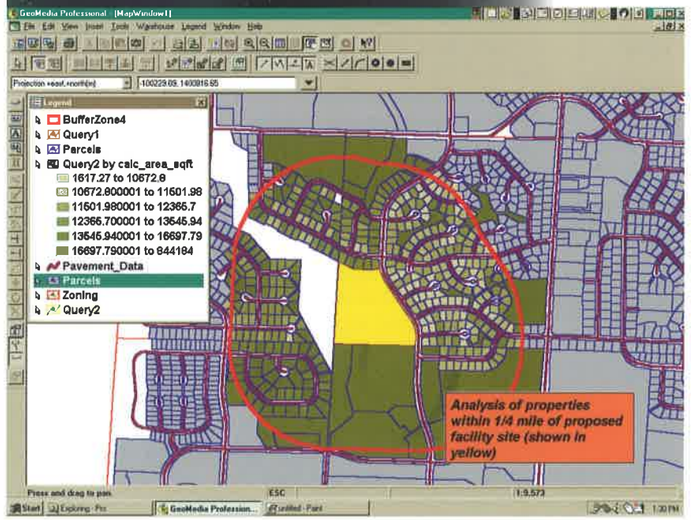
GeoMedia Pro includes highly productive tools to help you capture clean, accurate data the first time and minimize editing. Automatic vector breaking and coincident geometry digitizing enable you to avoid traditional problems such as slivers and intersections without nodes. For example, when a street feature is snapped into a second street feature, automatic vector breaking can split the second street into two separate features. With coincident geometry digitizing, you can capture a new polygon simply by selecting an existing polygon to digitize the common boundary, avoiding any possibility of gaps or slivers. If problems existed in data sources or are created during digitization, they are located with automated error detection capabilities.

When errors are located, you can correct them using intelligent feature placement and editing tools, such as dynamic queued editing and coincident geometry editing. Dynamic queued editing presents each problem in sequence, so you don't have to search. As each problem is fixed, the queue is automatically updated. When you add, move, or delete a point on a shared boundary between two features, the coincident geometry editing capability automatically changes both features. You can then quickly annotate the data using powerful labeling and text placement tools.

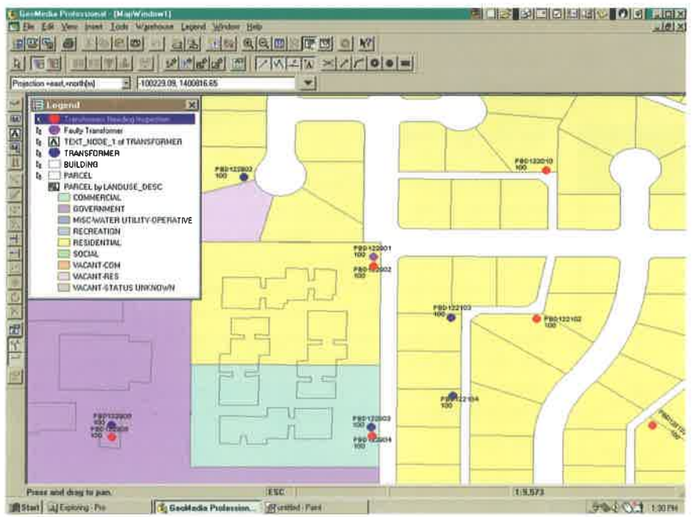
GeoMedia Pro provides the open access capabilities you've come to expect with GeoMedia. To help you make use of the latest scanning technologies, it supports the leading image formats – Bitmap, TIFF, CALS, JPEG, Hitachi, and IGS, as well as all Intergraph formats. Plus, the enhanced data server interface lets you access a variety of CAD and vector GIS formats on the fly, without messy, time-consuming conversions. You can directly read files from MicroStation,® AutoCAD, ARC/INFO, ArcView, MapInfo, MGE, and FRAMME.™ GeoMedia Pro's editing tools provide easy workflows for edge-matching, enabling you to build an integrated GIS database from sources representing multiple map sheets.

Off-the-shelf GIS data

To help you to get started on projects immediately, Intergraph provides data you can use right out of the box. We also can deliver map data in a variety of formats and data types. Ask us if we have the data you need.



GeoMedia Pro makes thematic mapping, buffer zone generation, and spatial analysis simple.



The results of this GeoMedia Pro analysis show several transformers in need of inspection cross-referenced with land use types.

Enterprise data management

With GeoMedia's data warehousing capabilities, GeoMedia Pro puts GIS data into the hands of users throughout the enterprise. GeoMedia Pro enables you to make live connections to native GIS data in multiple data warehouses simultaneously. It performs coordinate system and projection transformation on the fly, so there is no need for a time-consuming translation process that actually causes data loss. With real-time access to native data, your queries and thematic maps are automatically updated to reflect changes in the data warehouse, so users across your enterprise will always have access to up-to-date information.

GeoMedia Pro supports a variety of industry-standard relational databases, including Access, SQL Server, and Oracle universal server with Spatial Data Option/Spatial Cartridge (SDO/SC). By storing the data – including spatial data – in a relational database that is easily accessed throughout the enterprise, your department can maintain tight control over data, keep your maps and related information up to date, and reduce redundancy and error. Instead of storing geometric data in proprietary GIS or CAD databases that require cumbersome software to access, you can store geometric and attribute data in a single unified database using standard database tables. This allows you to take advantage of editing and security tools built into database management software and actually bring your GIS data into the realm of the IT professional.

Spatial analysis

Built with the same powerful analysis capabilities as GeoMedia, GeoMedia Pro includes tools that let you perform expert, complex spatial analyses. You can use buffer zones to query in a specified area, query spatial and linear segmented data, and create thematic maps that are color-coded or patterned to help you communicate geographically.

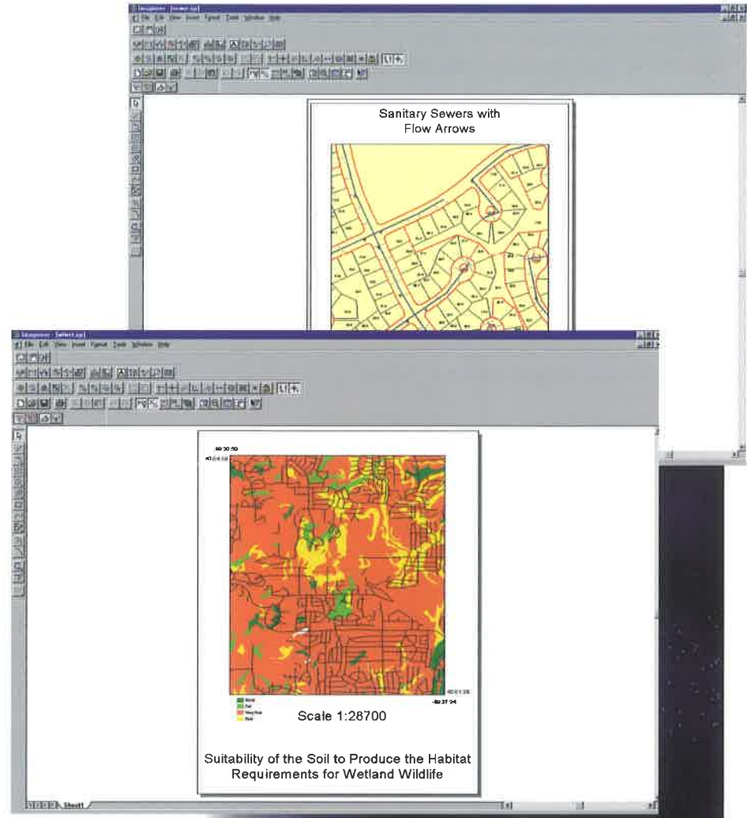
Accessing multiple databases, you can take data in its native format and create topology on the fly to analyze the exact datasets you need. You can integrate satellite imagery with other geographical information and expand your datasets by adding new features. GeoMedia Pro lets you create dynamic maps that integrate multimedia and GIS using hyperlinks to files containing sound, images, or text. At any time, you can print and plot to scale with WYSIWYG feature symbology.

Map production tools

GeoMedia Pro comes with award-winning Imagineer™ Technical 2.0 to provide a powerful map production environment. You can open an Imagineer Technical layout window, directly connecting to live GIS data inside GeoMedia Pro. This allows you to use Imagineer's precision map layout tools to construct active GIS analysis data for quality presentations. If you decide to change features in the GeoMedia Pro work space, those changes are automatically reflected in the Imagineer map layout.

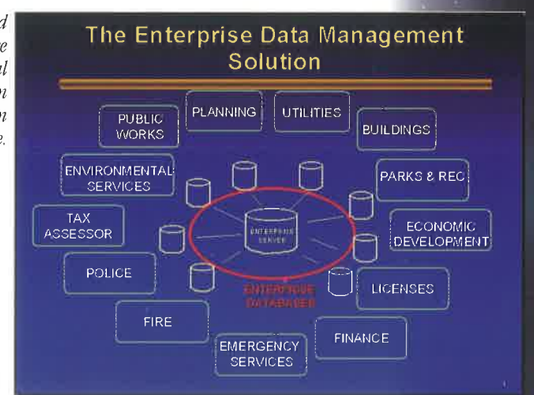
Imagineer's tools for map layout include the ability to add text, redlines, and labels; edit line styles; and construct custom symbology. To further enhance cartographic presentation, Imagineer includes automatic legend generation capabilities, lets you edit GeoMedia legends, and provides customizable cartographic templates. Imagineer provides full plotting support for output.

Operating seamlessly with Word, Excel, PowerPoint, and other applications through OLE 2.0 and MAPI, Imagineer erases boundaries between applications by letting you embed related data within the map layout to add value for downstream tasks. You can associate images, Excel spreadsheets, AutoCAD and MicroStation design files, and other Windows-compatible application files directly to features in the map layout, adding value to the entire workflow. Imagineer makes it easy to combine the map layout with text and spreadsheets to prepare reports, annotate drawings, and create presentations.


Sanitary Sewers with Flow Arrows
Scale 1:28700
Suitability of the Soil to Produce the Habitat Requirements for Wetland Wildlife

Use Imagineer Technical to produce high-quality map layouts with live data connections to GeoMedia Pro.

By using industry-standard relational databases to store and manage both spatial and attribute data, you can access all of the information across the enterprise.



Solution scalability

Because GeoMedia Pro is extremely flexible, you can use the database solution that best fits the size and resources of your company. The stand-alone or small shop user can support projects using Microsoft Access. On the workgroup or departmental level, Microsoft SQL Server is the ideal solution. For a comprehensive corporate solution, Oracle universal server with SDO/SC can provide data access enterprisewide. GeoMedia Pro lets you read and write to all of its database solutions. Why buy solutions with cumbersome, proprietary databases when you can get the right size database for the job with GeoMedia Pro?

GeoMedia® Professional

The Open Standard for the GIS Professional

The first GIS that fits easily into your desktop workflow

Continuing the tradition of GeoMedia as the next generation of GIS; GeoMedia Professional (Pro) is the culmination of many years of work in developing a truly open, standard GIS for government, industry, and education. In 1997, GeoMedia introduced the first open GIS environment, enabling organizations to combine datasets from multiple sources to form enterprise solutions for spatial data access and analysis. GeoMedia Pro builds on these successes by extending GeoMedia to include data capture, maintenance, and management. The result: the first open, standard product for GIS professionals.

GeoMedia Pro is the only GIS software using Microsoft Windows® technology that combines so many powerful tools in a single product. It's the perfect tool for collecting GIS data, populating an enterprise database, and turning information into precise, finished maps for distribution and presentation. With GeoMedia Pro and GeoMedia Web Map,™ you can share GIS information across the Web, integrate seamlessly with other Windows-based applications, create presentations, and streamline projects by customizing GeoMedia Pro with industry-standard development environments. GeoMedia Pro will help you communicate GIS information faster and work more efficiently than ever before.

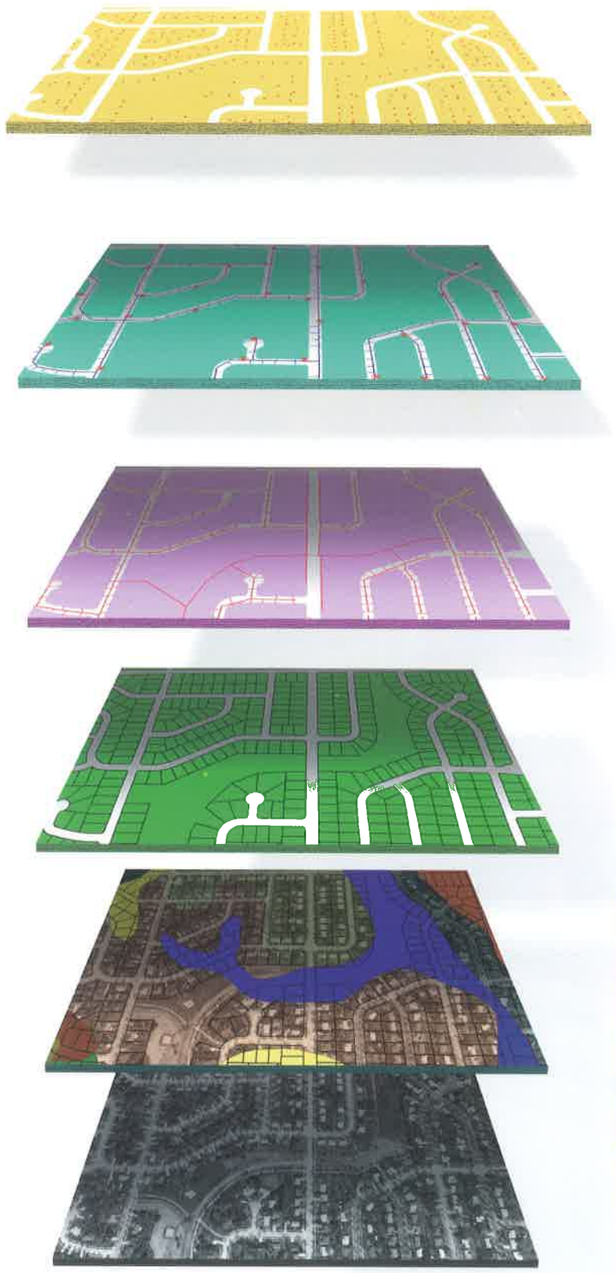
A new industry standard for GIS data automation

GeoMedia Pro sets a new industry standard for GIS data capture and delivers productivity gains by reducing the number of operator actions, increasing ease of use, and speeding implementation. GeoMedia Pro incorporates the industry's most advanced tools for smart data capture, maintenance of maps and descriptive information, integrated vector/raster maps, and support of industry-standard relational databases.

GeoMedia Pro erases boundaries between applications. Using GeoMedia Pro, you can blend new and legacy data. You can combine GIS data with text and spreadsheets to prepare reports, annotate drawings, and create presentations. Interoperate seamlessly with Word, Excel, PowerPoint,® Access, and other applications. You can even integrate CAD files and other GIS data from multiple products into a single database.

GeoMedia Pro is the result of more than 20 years of GIS technology development. With each enhancement, Intergraph's top priority is to let customers deploy new technology while preserving their investment in valuable corporate data. GeoMedia Pro gives you the following benefits.

- Data capture, automation, and maintenance
- Enterprise data management
- Spatial analysis
- Map production
- Industry-standard development environment



GeoMedia Pro features

Data Capture, Automation, and Maintenance
- Full suite of capture and editing tools
- Integrated and dynamic vector and raster snaps
- Designed for GIS workflows
- Fast data capture/automated error detection
- Smart feature placement and editing tools
- Dynamic queued editing

Enterprise Data Management
- Feature-centered data management
- Unified data model with spatial data
- Industry-standard relational databases
- Live connections to data warehouses

Spatial Analysis
- Spatial and attribute query
- Thematic mapping
- Proximity analysis
- Feature buffering
- On-the-fly projection operations
- Integrated multimedia

Map Production
- Map composition editing tools
- Cartographic display tools
- Cartographic templates to support graphic composition
- Output format support for CGM, PostScript, and HPGL

Industry-Standard Development Environment
- Customization with industry-standard development languages
- Graphical user interface/application customization
- ODBC communication
- Client/server architecture

Team GeoMedia

Team GeoMedia is a coalition of leading independent software vendors, consultants, systems integrators, industry advisers, and data producers developing specialized applications with GeoMedia. Continuing Intergraph's commitment to the team concept, Team GeoMedia provides the technology leadership necessary for meeting our customers' demands.

Partners in Team GeoMedia create numerous applications, including:
- Computer-aided mass appraisal (CAMA)
- Pavement management
- Asset management
- Market analysis
- Tax mapping
- Accident and crime analysis
- Network modeling

Look for the new Team GeoMedia application catalog or visit our Web site where GeoMedia developers and users can explore the latest technical developments and innovations.

INTERGRAPH TEAM GeoMedia® TEAMING WITH INTERGRAPH FOR SUCCESS